IAP7 Rec'd PCT/PTO 21 APR 2006

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021

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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 2143.000400/KDG see 37 CFR 1.5) APPLICATION NO HIT MOND

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/GB2004/004420 October 19, 2004 October 23, 2003 TITLE OF INVENTION METHOD AND APPARATUS FOR TRANSFORMING OPTICAL WAVE MODES APPLICANT(S) FOR DO/EO/US Terry Victor Clapp Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). ХX A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). xx Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. XX An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

## IAP20 ROC'S FOUNTO 21 APR 2006

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The following fees have been submitted  The following fees have been submitted  The following fees have been submitted  21.	U.S. APPLICATION NO F (if known, see 37 CFR 1.5)  Unkaylu 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		INTERNATIONAL APPLICATION NO. PCT/GB2004/004420		ATTORNEY'S DOCKET NUMBER 2143.000400/KDG				
21. ■ Basic national fee (37 CFR 1.492(a))	20. Other items or information:								
21. ■ Basic national fee (37 CFR 1.492(a))									
Examination fee (37 CFR 1.492(p))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	· · · · · · · · · · · · · · · · · · ·						PTO USE ONLY		
If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	21. 💌 Basi	c national fee (37	CFR 1.492(a))		\$300	300.00			
by IPEA/US Indicates all claims satisfy provisions of PCT Article 33(1)-(4)	22. 🗷 Exam	22. x Examination fee (37 CFR 1.492(c))							
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Articlo 33(1)-(4)	by IPĖA/	US indicates all cl	\$ 200.00						
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB	If the written opin IPEA/US Search fee (37 C	ion of the ISA/US indicates all claim FR 1.445(a)(2)) ha	\$ 400.00						
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.821(c) and (37 CFR 1.821(c)) and (37 CFR 1.821(c)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets	International Sea previously	rch Report prepare communicated to							
sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(p)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof.  RATE  **Section**  **Section**  **Section**  **RATE  **Section**  **	TOTAL OF 21, 22 and 23 =					900.00			
thereof (round up to a whole number)  29 - 100 =	sequence electroni	e listing in complia c medium) (37 CF							
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  A3 - 20 = 23	Total Sheets	Extra Sheets							
after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  43 - 20 = 23	<sup>29</sup> - 100 =	/50 =			× \$250	\$ .00	· · · · · · · · · · · · · · · · · · ·		
Total claims 43 - 20 = 23			\$						
Independent claims 5 - 3 = 2	CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$			
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 \$ .00  TOTAL OF ABOVE CALCULATIONS = \$2450.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½	Total claims		43 - 20 =	23	x \$ 50	\$ 1150.00			
TOTAL OF ABOVE CALCULATIONS = \$ 2450.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL = \$ 2450.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 2450.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED = \$ 2450.00  Amount to be refunded: \$ Amount to be	Independent clai	ms	5 - 3 =	2	× \$200	\$ 400.00			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  SUBTOTAL = \$ 2450.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 2450.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  TOTAL FEES ENCLOSED = \$ 2450.00  Amount to be refunded:  Amount to be	MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360					\$ .00			
SUBTOTAL = \$ 2450.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 2450.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED = \$ 2450.00  Amount to be refunded: \$ Amount to be			\$ 2450.00						
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	4	AP20 Regulation 70 % 1 APR 2006					
a. 💌 A	A check in the amount of \$ 2450.00 to cover the abo	ve lees is enclosed.					
	Please charge my Deposit Account No in the amount of \$ A duplicate copy of this sheet is enclosed.	to cover the above fees.					
	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0786/KDG. A duplicate copy of this sheet is enclosed.						
	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
	•						
SEND ALL	CORRESPONDENCE TO:	Genneth D. Goodman SIGNATURE					
CL	JSTOMER NO. 23720	Kenneth D. Goodman NAME					
		30,460					
ı		REGISTRATION NUMBER					
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